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Illinois  
Environmental  
Protection Agency

Division of Public Water Supplies  
2200 Churchill Road  
Springfield, Illinois 62706

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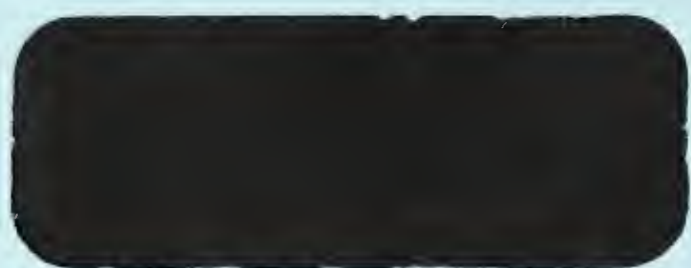
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## Groundwater Quality Protection Program

ST. JOSEPH  
FACILITY NUMBER 0190900  
WELL SITE SURVEY  
REPORT

Division of Public Water Supplies





GROUNDWATER QUALITY PROTECTION PROGRAM:

ST. JOSEPH  
FACILITY NUMBER 0190900  
WELL SITE SURVEY  
REPORT

Prepared by:

Division of Public Water Supplies


Published by:

Illinois Environmental Protection Agency

Springfield, Illinois

July, 1990





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## TABLE OF CONTENTS

- I. Introduction
- II. Facility Description and Geologic Profile of Well Sites
- III. Groundwater Sampling and Monitoring History
- IV. Well Site Survey Methods and Procedures
- V. Summary
- VI. Technical Appendices
  - A. Topographic Map
  - B. Aerial Photographic Map
    - 1. St. Joseph Well #1 (IEPA #47667) Summary Description and Unit Inventory
    - 2. St. Joseph Well #2 (IEPA #47837) Summary Description and Unit Inventory
    - 3. St. Joseph Well #3 (IEPA #47668) Summary Description and Unit Inventory
    - 4. St. Joseph Well #4 (IEPA #47669) Summary Description and Unit Inventory
    - 5. St. Joseph Well #5 (IEPA #47670) Summary Description and Unit Inventory
    - 6. St. Joseph Well #6 (IEPA #47671) Summary Description and Unit Inventory
  - C. Facility Wells Report
  - D. Detailed Sampling/Monitoring Results
  - E. Hazard Review Sheets



## INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

## FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The Village of St. Joseph obtains its water from six drift wells. Wells #4, #5 and #6 are the main supply wells with #1, #2 and #3 used as backup. The wells supply an average of 247,000 gallons per day to 890 services. See Table I for a description of each well. The surficial geologic susceptibility rating for all six wells is E. The aquifer is overlain by low permeability glacial till. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A complete description and geologic profile is found in the Facility Wells Report (Appendix C).

Table I

	Minimum Setback (ft.)	Maximum Setback (ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft.)	Treatment	Aquifer	Well Depth (ft.)	Well Logs Available
Well #1 (47667)	200	No	SB	50 0.072		Aer., Filt., Chl., Fl.	Sand and Gravel	78	
Well #2 (47837)	200	No	SB	35 0.053		Same	Same	81	
Well #3 (47668)	200	No	SB	50 0.072		Same	Same	80	
Well #4 (47669)	200	No	A	110 0.158	43.0	Same	Same	83	
Well #5 (47670)	200	No	A	110 0.158		Same	Same	78	
Well #6 (47671)	200	No	A	110 0.158		Same	Same	74	

SB - Standby  
A - Active



## GROUNDWATER SAMPLING AND MONITORING HISTORY

St. Joseph Wells #4, #5 and #6 were sampled on March 12, 1987 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/aromatic compounds (VOC/VOA).

VOC/VOA analyses did not detect quantifiable levels of any organic compounds. IOC analyses indicate that parameters are consistent with other sand and gravel aquifers in Illinois (Appendix D).

## WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes, and possible problem sites to your water supply wells. The location of potential sources, routes, possible problem sites, water wells minimum setback zones and the 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). The Agency 5-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

### Survey Results and Findings

The St. Joseph well site field survey was conducted on May 8, 1990 by Wade Boring from the Agency's Springfield Office. The following describes the results and findings for the St. Joseph public water wells.

#### St. Joseph Well #1 (IEPA #47667)

The survey area is mostly rural. The area is a mixture of row crops, residential, and commercial. There are four possible problem sites within 1,500 feet of Well #1. They are the FS gas station (map code 1) 500 feet NE, Union 76 (map code 2) 450 feet NE, BMW repair shop (map code 3) 300 feet NE and a bulk fuel storage area (map code 4) 450 feet SW.

#### St. Joseph Well #2 (IEPA #47837)

The survey area is mostly rural. The area is a mixture of row crops, residential and commercial. There are five possible problem sites within 1,500 feet of Well #2. They are the FS gas station (map code 1) 1,200 feet NE, Union 76 (map code 2) 1,150 feet NE, BMW repair shop (map code 3) 1,000 feet NE, a bulk fuel storage area (map code 4) 220 feet E and the St. Joseph Road District (map code 6) 800 feet W.



#### St. Joseph Well #3 (IEPA #47668)

The survey area is mostly rural. The area is a mixture of row crops, residential and commercial. There is one potential secondary source and one possible problem site within 1,500 feet of Well #3. The potential secondary source is below ground fuel storage at the St. Joseph Road District garage (map code 6) 50 feet W. The possible problem site is above ground fuel storage (map code 4) 1,050 feet NE.

#### St. Joseph Well #4 (IEPA #47669)

The survey area is mostly rural. The area is a mixture of row crops and residential. There is one possible problem site within 1,500 feet of Well #4; the sewage treatment plant (map code 7) 650 feet W.

#### St. Joseph Well #5 (IEPA #47670)

The survey area is mostly rural. The area is a mixture of row crops, residential and commercial. There are four possible problem sites within 1,500 feet of Well #5. They are the FS gas station (map code 1) 500 feet NE, Union 76 (map code 2) 450 feet NE, BMW repair shop (map code 3) 250 feet NE and a bulk fuel storage area (map code 4) 500 feet SW.

#### St. Joseph Well #6 (IEPA #47671)

The survey area is mostly rural. The area is a mixture of row crops, residential and commercial. There is one potential secondary source and four possible problem sites within 1,500 feet of Well #6. The potential secondary source is an above ground bulk fuel storage area (map code 4) 170 feet E. The possible problem sites are the FS gas station (map code 1) 1,100 feet NE, Union 76 (map code 2) 1,050 feet NE, BMW repair shop (map code 3) 900 feet NE and the St. Joseph Road District (map code 6) 920 feet SW.

#### SUMMARY

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the St. Joseph public water wells.

- . Three sites with below ground fuel storage
- . One site with above ground fuel storage
- . The sewage treatment plant

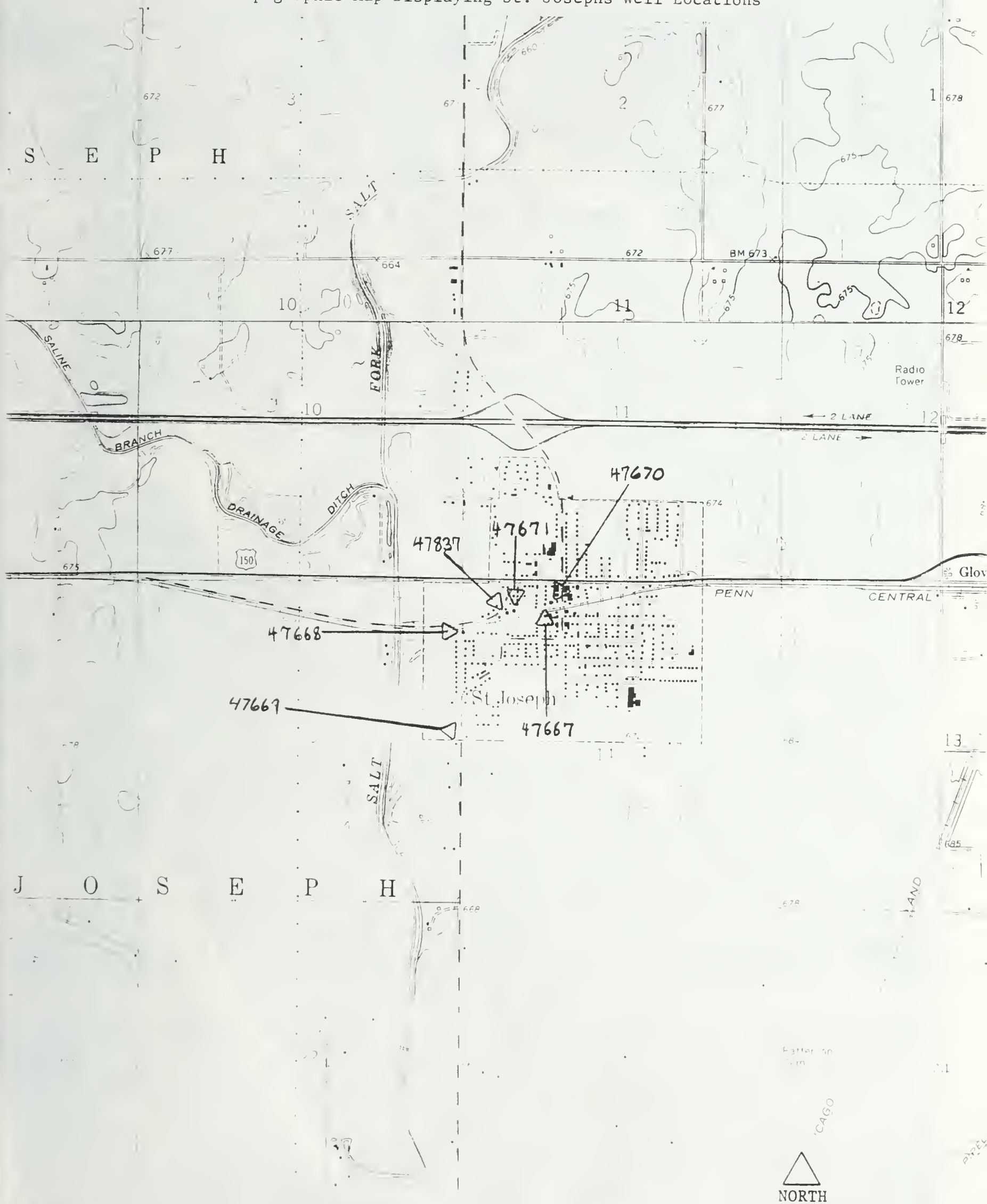
The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the controls would then be assumed by local officials through adoption of a maximum setback zone ordinance.



## TECHNICAL APPENDICES



APPENDIX A  
Topographic Map Displaying St. Josephs Well Locations







APPENDIX B  
Aerial Photographic Map

INITIAL  
7/12/90



NORTH  
ST. JOSEPH  
0190900  
SCALE 1" = 400'

3

4

5

6

7

47670

47667

47671

47837

47668

47669

1100'

HIGH SCHOOL

WARREN

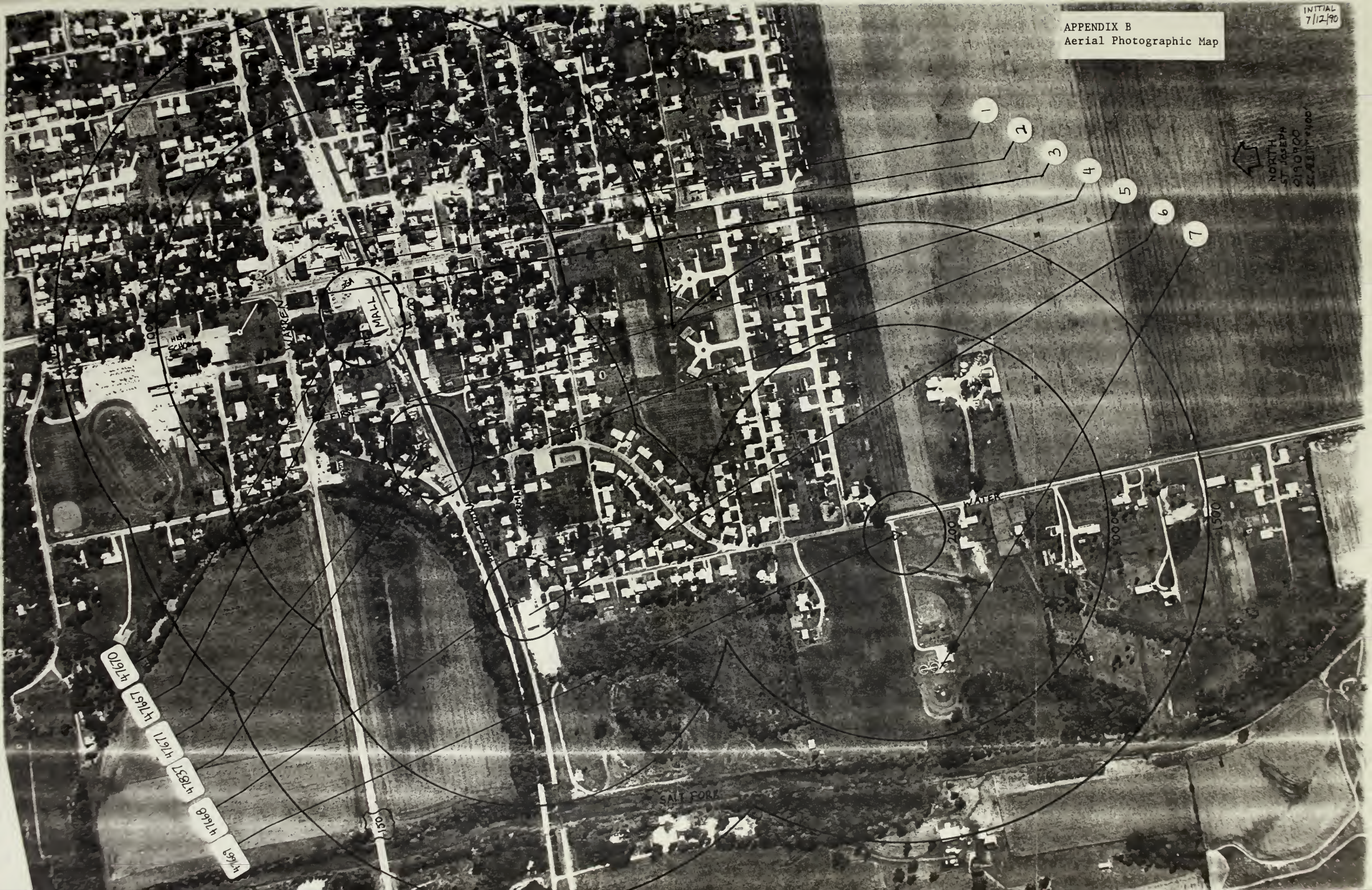
1000'

1500'



APPENDIX B  
Aerial Photographic Map

INITIAL  
7/12/90





APPENDIX: B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE St.  
Joseph Well #1 (IEPA #47667)

SURVEYOR: W. Boring  
SURVEY DATE: May 8, 1990

ADDRESS:  
207 East Lincoln  
Post Office Box 716  
St. Joseph, IL 61873

AGENCY WELL NO: 47667  
WELL NAME & DESC.: Well 1  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190900 -- St. Joseph  
FAC. PHONE NUMBER: 217/469-7212  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
19N, 10E, 14 7G  
DISTANCE FROM CORNER: 4500 N, 3800 W  
QUAD SHEET CODE & NAME: 147D -- St. Joseph  
MIN. SETBACK: 200 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E -- low permeability stilty/clayey  
till  
AGE OF WELL (DATE WELL CONSTRUCTION): 1941  
WELL DEPTH: 78 ft.  
AQUIFER CODE: 0101 -- sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The  
area is a mixture of row crops, residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

WB:jk/sp/2530n

APPENDIX: B1 INVENTORY AND SYNOPSIS OF UNITS St. Joseph Well #1 (IEPA #47667)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONOARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47667-01-OS

NAME & ADDRESS OF UNIT OWNER: F.S., Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 500 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47667-02-OS

NAME & ADDRESS OF UNIT OWNER: Union 76, Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 450 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47667-03-

NAME & ADDRESS OF UNIT OWNER: BMW, Main and Warren, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: auto repair center

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 300 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47667-04-OS

NAME & ADDRESS OF UNIT OWNER: unknown, First Street, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: above ground bulk fuel storage

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 450 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47667-05-

NAME & ADDRESS OF UNIT OWNER: Illinois Department of Transportation, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: truck parking

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 800 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47667-06-

NAME & ADDRESS OF UNIT OWNER: St. Joseph Road District, 400 West Sherman, St. Joseph, IL 61873  
217/469-7582

DESCRIPTION AND COMMENTS: garage w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1600 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47667-07-

NAME & ADDRESS OF UNIT OWNER: Village of St. Joseph Sanitary District, 509 North Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: sewage treatment plant, NPDES #IL0023086

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 3150 ft. SW

---

APPENDIX: B2 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE St.  
Joseph Well #2 (IEPA #47837)

SURVEYOR: W. Boring  
SURVEY DATE: May 8, 1990

ADDRESS:  
207 East Lincoln  
Post Office Box 716  
St. Joseph, IL 61873

AGENCY WELL NO: 47837  
WELL NAME & DESC.: Well 2  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190900 -- St. Joseph  
FAC. PHONE NUMBER: 217/469-7212

LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
19N, 10E, 14, 7H  
DISTANCE FROM CORNER: 4750 N, 4000 W  
QUAD SHEET CODE & NAME: 147D -- St. Joseph  
MIN. SETBACK: 200 ft.

MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E -- low permeability silty/clayey  
till

AGE OF WELL (DATE WELL CONSTRUCTION): 1948  
WELL DEPTH: 81 ft.

AQUIFER CODE: 0101 -- sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The  
area is a mixture of row crops, residential and commercial.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

WB:jk/sp/2530n

APPENDIX: B2 INVENTORY AND SYNOPSIS OF UNITS St. Joseph Well #2 (IEPA #47837)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47837-01-

NAME & ADDRESS OF UNIT OWNER: F.S., Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1200 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47837-02-

NAME & ADDRESS OF UNIT OWNER: Union 76, Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1150 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47837-03-

NAME & ADDRESS OF UNIT OWNER: BMW, Main and Warren, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: auto repair center

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1000 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47837-04-05

NAME & ADDRESS OF UNIT OWNER: unknown, First Street, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: above ground bulk fuel storage

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 220 ft. E

---

WELL NO. - MAP CODE - CLASSF\*: 47837-05-

NAME & ADDRESS OF UNIT OWNER: Illinois Department of Transportation, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: truck parking

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 100 ft. W

---

WELL NO. - MAP CODE - CLASSF\*: 47837-06-

NAME & ADDRESS OF UNIT OWNER: St. Joseph Road District, 400 West Sherman, St. Joseph, IL 61873  
217/469-7582

DESCRIPTION AND COMMENTS: garage w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 800 ft. W

---

WELL NO. - MAP CODE - CLASSF\*: 47837-07-

NAME & ADDRESS OF UNIT OWNER: Village of St. Joseph Sanitary District, 509 North Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: sewage treatment plant, NPDES #IL0023086

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 2600 ft. SW

---



APPENDIX: B3 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE St.  
Joseph Well #3 (IEPA #47668)

SURVEYOR: W. Boring  
SURVEY DATE: May 8, 1990

ADDRESS:  
207 East Lincoln  
Post Office Box 716  
St. Joseph, IL 61873

AGENCY WELL NO: 47668  
WELL NAME & DESC.: Well 3  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190900 -- St. Joseph  
FAC. PHONE NUMBER: 217/469-7212  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
19N, 10E, 15, 1F  
DISTANCE FROM CORNER: 3350 N, 20 W  
QUAD SHEET CODE & NAME: 147D -- St. Joseph  
MIN. SETBACK: 200 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E -- low permeability silty/clayey  
till  
AGE OF WELL (DATE WELL CONSTRUCTION): 1971  
WELL DEPTH: 80 ft.  
AQUIFER CODE: 0101 -- sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The  
area is a mixture of row crops, residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

WB:jk/sp/2530n

APPENDIX: B3 INVENTORY AND SYNOPSIS OF UNITS St. Joseph Well #3 (IEPA #47668)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47668-01-

NAME & ADDRESS OF UNIT OWNER: F.S., Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1950 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47668-02-

NAME & ADDRESS OF UNIT OWNER: Union 76, Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1900 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47668-03-

NAME & ADDRESS OF UNIT OWNER: BMW, Main and Warren, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: auto repair center

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1800 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47668-04-

NAME & ADDRESS OF UNIT OWNER: unknown, First Street, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: above ground bulk fuel storage

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1050 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47668-05-

NAME & ADDRESS OF UNIT OWNER: Illinois Department of Transportation, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: truck parking

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 650 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47668-06-PS

NAME & ADDRESS OF UNIT OWNER: St. Joseph Road District, 400 West Sherman, St. Joseph, IL 61873  
217/469-7582

DESCRIPTION AND COMMENTS: garage w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 50 ft. W

---

WELL NO. - MAP CODE - CLASSF\*: 47668-07-OS

NAME & ADDRESS OF UNIT OWNER: Village of St. Joseph Sanitary District, 509 NorthMain Street, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: sewage treatment plant, NPDES #IL0023086

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1950 ft. SSW

---

APPENDIX: B4 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE St.  
Joseph Well #4 (IEPA #47669)

SURVEYOR: W. Boring  
SURVEY DATE: May 8, 1990

ADDRESS:  
207 East Lincoln  
Post Office Box 716  
St. Joseph, IL 61873

AGENCY WELL NO: 47669  
WELL NAME & DESC.: Well 4  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190900 -- St. Joseph  
FAC. PHONE NUMBER: 217/469-7212  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
19N, 10E, 15, 1E  
DISTANCE FROM CORNER: 2800 N, 50 W  
QUAD SHEET CODE & NAME: 147D -- St. Joseph  
MIN. SETBACK: 200 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E -- low permeability silty/clayey  
till  
AGE OF WELL (DATE WELL CONSTRUCTION): 1976  
WELL DEPTH: 83 ft.  
AQUIFER CODE: 0101 -- sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The  
area is a mixture of row crops, residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

WB:jk/sp/2530n

APPENDIX: B4 INVENTORY AND SYNOPSIS OF UNITS St. Joseph Well #4 (IEPA #47669)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47669-07-05

NAME & ADDRESS OF UNIT OWNER: Village of St. Joseph Sanitary District, 509 North Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: sewage treatment plant, NPDES #IL0023086

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 650 ft. W

---

WB: jk/sp/2530n

APPENDIX: B5 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE St. Joseph Well #5 (IEPA #47670)

SURVEYOR: W. Boring  
SURVEY DATE: May 8, 1990

ADDRESS:  
207 East Lincoln  
Post Office Box 716  
St. Joseph, IL 61873

AGENCY WELL NO: 47670  
WELL NAME & DESC.: Well 5  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190900 -- St. Joseph  
FAC. PHONE NUMBER: 217/469-7212  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
19N, 10E, 14, 6G  
DISTANCE FROM CORNER: 4500 N, 3800 W  
QUAD SHEET CODE & NAME: 147D -- St. Joseph  
MIN. SETBACK: 200 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E -- low permeability silty/clayey till  
AGE OF WELL (DATE WELL CONSTRUCTION): 1981  
WELL DEPTH: 78 ft.  
AQUIFER CODE: 0101 -- sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture of row crops, residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

WB:jk/sp/2530n



APPENDIX: B5 INVENTORY AND SYNOPSIS OF UNITS St. Joseph Well #5 (IEPA #47670)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47670-01-OS

NAME & ADDRESS OF UNIT OWNER: F.S., Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 500 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47670-02-OS

NAME & ADDRESS OF UNIT OWNER: Union 76, Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 450 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47670-03-

NAME & ADDRESS OF UNIT OWNER: BMW, Main and Warren, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: auto repair center

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 250 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47670-04-OS

NAME & ADDRESS OF UNIT OWNER: unknown, First Street, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: above ground bulk fuel storage

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 500 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47670-05-

NAME & ADDRESS OF UNIT OWNER: Illinois Department of Transportation, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: truck parking

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 900 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47670-06-

NAME & ADDRESS OF UNIT OWNER: St. Joseph Road District, 400 West Sherman, St. Joseph, IL 61873 217/469-7582

DESCRIPTION AND COMMENTS: garage w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1600 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47670-07-

NAME & ADDRESS OF UNIT OWNER: Village of St. Joseph Sanitary District, 509 North Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: sewage treatment plant, NPDES #IL0023086

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 3200 ft. SW

---



APPENDIX: B6 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE St.  
Joseph Well #6 (IEPA #47671)

SURVEYOR: W. Boring  
SURVEY DATE: May 8, 1990

ADDRESS:  
207 East Lincoln  
Post Office Box 716  
St. Joseph, IL 61873

AGENCY WELL NO: 47671  
WELL NAME & DESC.: Well 6  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190900 -- St. Joseph  
FAC. PHONE NUMBER: 217/469-7212  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
19N, 10E, 14, 7G  
DISTANCE FROM CORNER: 4450 N, 4000 W  
QUAD SHEET CODE & NAME: 147D -- St. Joseph  
MIN. SETBACK: 200 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E -- low permeability silty/clayey  
till  
AGE OF WELL (DATE WELL CONSTRUCTION): 1981  
WELL DEPTH: 74 ft.  
AQUIFER CODE: 0101 -- sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The  
area is a mixture of row crops, residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

WB:jk/sp/2530n

APPENDIX: B6 INVENTORY AND SYNOPSIS OF UNITS St. Joseph Well #6 (IEPA #47671)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47671-01-

NAME & ADDRESS OF UNIT OWNER: F.S., Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1100 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47671-02-

NAME & ADDRESS OF UNIT OWNER: Union 76, Warren and Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1050 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47671-03-

NAME & ADDRESS OF UNIT OWNER: BMW, Main and Warren, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: auto repair center

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 900 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47671-04-PS

NAME & ADDRESS OF UNIT OWNER: unknown, First Street, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: above ground bulk fuel storage

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 170 ft. E

---

WELL NO. - MAP CODE - CLASSF\*: 47671-05-

NAME & ADDRESS OF UNIT OWNER: Illinois Department of Transportation, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: truck parking

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 200 ft. W

---

WELL NO. - MAP CODE - CLASSF\*: 47671-06-OS

NAME & ADDRESS OF UNIT OWNER: St. Joseph Road District, 400 West Sherman, St. Joseph, IL 61873 217/469 7582

DESCRIPTION AND COMMENTS: garage w/below ground fuel storage assumed greater than 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 920 ft. SW

---

WELL NO. - MAP CODE - CLASSF\*: 47671-07-

NAME & ADDRESS OF UNIT OWNER: Village of St. Joseph Sanitary District, 509 North Main, St. Joseph, IL 61873

DESCRIPTION AND COMMENTS: sewage treatment plant, NPDES #IL0023086

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 2650 ft. SW

---

## APPENDIX C



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
FACILITY WELLS REPORT

PAGE: 1  
DATE: 07/13/90

REPORT: PWGWP053  
MODULE: PWGWM027

FACILITY: 01J0900 ST JOSEPH

----- OWNER ----- OFFICIAL CUSTODIAN -----

B.J. HACKLER

207 E. LINCOLN

PO BOX 716

ST. JOSEPH

IL 61873

RONALD FISHER

207 E. LINCOLN

PO BOX 716

ST JOSEPH

IL 61873

WELL: 47667	WELL 1 INSIDE PLANT ON 2ND ST	STATUS: INACTIVE#	BACKUP	DEPTH(FT): 78
LATITUDE: N40 05 40.0	LONGITUDE: W088 02 32.0	TWP: 19N	RNG: 10E	SEC: 14
SUSCEPTIBILITY - LAND BURIAL: E	SUSCEPTIBILITY - LAND SPREADING: D2	---	MINIMUM SETBACK(FT): 200*	---
WELL: 47668	WELL 3 AT SHERMAN AND WATER STREETS	STATUS: ACTIVE	BACKUP	DEPTH(FT): 80
LATITUDE: N40 06 37.0	LONGITUDE: W088 02 53.0	TWP: 19N	RNG: 10E	SEC: 15
SUSCEPTIBILITY - LAND BURIAL: E	SUSCEPTIBILITY - LAND SPREADING: D2	---	MINIMUM SETBACK(FT): 0200	---
WELL: 47669	WELL 4 AT SEWAGE PLANT DR SW OF TOWN	STATUS: ACTIVE		DEPTH(FT): 83
LATITUDE: N40 06 21.0	LONGITUDE: W088 02 54.0	TWP: 19N	RNG: 10E	SEC: 15
SUSCEPTIBILITY - LAND BURIAL: E	SUSCEPTIBILITY - LAND SPREADING: D2	---	MINIMUM SETBACK(FT): 0200	---
WELL: 47670	WELL 5 IS EAST OF PLANT NEAR REACTION TK	STATUS: ACTIVE		DEPTH(FT): 78
LATITUDE: N40 06 40.0	LONGITUDE: W088 02 32.0	TWP: 19N	RNG: 10E	SEC: 14
SUSCEPTIBILITY - LAND BURIAL: E	SUSCEPTIBILITY - LAND SPREADING: D2	---	MINIMUM SETBACK(FT): 0200	---
WELL: 47671	WELL 6 AT MONROE ST AND RR, W OF PLANT	STATUS: ACTIVE		DEPTH(FT): 74
LATITUDE: N40 06 38.0	LONGITUDE: W088 02 37.0	TWP: 19N	RNG: 10E	SEC: 14
SUSCEPTIBILITY - LAND BURIAL: E	SUSCEPTIBILITY - LAND SPREADING: D2	---	MINIMUM SETBACK(FT): 0200	---
WELL: 47837	WELL 2 IS AT MONROE ST AND RR, W OF PLANT	STATUS: INACTIVE#	BACKUP	DEPTH(FT): 81
LATITUDE: N40 06 38.0	LONGITUDE: W088 02 37.0	TWP: 19N	RNG: 10E	SEC: 14
SUSCEPTIBILITY - LAND BURIAL: E	SUSCEPTIBILITY - LAND SPREADING: D2	---	MINIMUM SETBACK(FT): 200*	---

SUSCEPTIBILITY CODES  
LAND BURIAL: E = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

LAND SPREADING: D2 = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 20 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

NOTES: INACTIVE WELLS SHOULD EITHER BE RETROFITTED FOR USE OR PROPERLY ABANDONED. INACTIVE WELLS WHICH ARE IMPROPERLY ABANDONED MAY CONTAIN POTENTIAL HAZARDOUS MATERIALS ACCORDING TO P.A. 35-1953.





## APPENDIX D



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 1  
DATE: 07/13/90

REPORT: DWGMD043  
MODUL: DWGMD026

FACILITY: 0190900 ST JOSEPH  
TAP: 01 PLANT IS ONE BLOCK WEST OF DOWNTOWN  
RAW SRCE: 47667 WELL 1 INSIDE PLANT ON 2ND ST

STATUS: A  
STATUS: A  
STATUS: I  
PUBLIC: Y  
COMM: Y  
TYPE WATER: G

SAMPLE NO: 803871  
SMPL TYPE: RAW  
SMPL PURP: 1-ROUTINE  
SMPL PROG: I-GM INDRG OBRVATNS:  
LOCATION: WELL #1  
COLLECTOR: RONALD FISHER  
COMMENTS:

COLL DATE: 01/14/81  
LAB RCVD: 02/09/81  
LAB COMPL:  
SMPL PERIOD: 01/81  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESCRIPTION	UNITS	RESULT	STANDARDS			TRIGGER LEVFL
						ORINK	WTR	RAW	
			CONDUCTIVITY(CE)-LABCUMHDS/CM @ 25 C		670.000				
		00403	PH LABORATORY UNITS		7.200				
		00410	ALKALINITY, TOTAL MG/L AS CaCO3		368.000				
		00610	NITROGEN, AMMONIA TOTAL MG/L AS N		1.200				
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <		10.000		
		00720	CYANIDE, TOTAL MG/L AS CN		0.005 <		0.200		
		00900	HARNESS, EDTA MG/L AS CaCO3		319.000				
		00915	CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP		76.000				
		00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP		31.200				
		00929	SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP		27.000				
		00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.600				
		00940	CHLORIDE, TOTAL MG/L AS CL		2.800				
		00945	SULFATE, TOTAL MG/L AS SO4		10.000 <		4.000		
		00951	FLUORIDE, TOTAL MG/L AS F		0.380				
		00956	SILICA, TOTAL MG/L AS SiO2		22.000				
		01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS		3.000		50.000		
		01007	BARIUM, TOTAL RECOVERABLE UG/L AS Ba ANAL BY ICP		263.000		1000.000		
		01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS Be ANAL BY ICP		0.500 <				
		01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		22.000				
		01027	CAESIUM, TOTAL RECOVERABLE UG/L AS Cs ANAL BY ICP		3.000 <		10.000		
		01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP		5.000 <		50.000		
		01037	COBALT, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP		5.000 <				
		01042	COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP		4.000		5000.000		
		01045	IRON, TOTAL RECOVERABLE UG/L AS Fe ANAL BY ICP		1765.000		1000.000*		
		01051	LEAD, TOTAL RECOVERABLE UG/L AS Pb		5.000 <		50.000		
		01055	MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP		26.000		150.000		
		01067	NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP		6.000				
		01077	SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP		5.000 <		50.000		
		01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP		951.000				
		01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		4.000 <				
		01092	ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP		6.000		5000.000		
		01147	SELENIUM, TOTAL RECOVERABLE UG/L AS Se		1.000 <		10.000		
		70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L		362.000				
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		400.000				
		71900	MERCURY, TOTAL UG/L AS Hg		0.050 <		2.000		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

REPORT: PWGWP048  
MODULE: PWGWM026

PAGE: 2  
DATE: 07/13/90

FACILITY: 0190900 ST JOSEPH

TAP: C1 PLANT IS ONE BLOCK WEST OF DOWNTOWN  
RAW SRCE: 47661 WELL 3 AT SHERMAN AND WATER STREETS

STATUS: A  
STA : A  
STATUS: A

PUBLIC: Y COMM: Y TYPE WATER: G

SAMPLE NO: 8027641 LOCATION: WELL #3

SMPL TYPE: RAW COLLECTOR: RONALD FISHER

SMPL PURP: I-ROUTINE COMMENTS:

SMPL PRG: I-GWM INDRG 09SRVATNS:

COLL DATE: 03/02/83 DELIVERED BY:  
LAB RCVD: 04/13/83 RECEIVED BY:  
LAB COMPL: LAB SUPERVISOR:  
SMPL PERIOD: 03/83 FUND CODE:

ANALYSIS	IN	PSLT	NO	NO	DESCRIPTION	UNITS	RESULT	-----STANDARDS-----			TRIGGED
								DRINK	WTR	RAW	
00095					CONDUCTIVITY(CE)-LABCUMHQS/CM @ 25 C		630.000				
00403					PH LABORATORY UNITS		7.600				
00410					ALKALINITY,TOTAL MG/L AS CAC03		349.000				
00610					NITROGEN,AMMONIA TOTAL MG/L AS N		4.600				
00630					NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000			
00720					CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200			
00900					HARDNESS,EDTA MG/L AS CAC03		276.000				
00916					CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		66.000				
00927					MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		27.000				
00929					SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		33.000				
00937					POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.600				
00940					CHLORIDE,TOTAL MG/L AS CL		4.300				
00945					SULFATE,TOTAL MG/L AS SO4		10.000 <		4.000		
00951					FLUORIDE,TOTAL MG/L AS F		0.330				
00956					SILICA,TOTAL MG/L AS S102		21.000				
01002					ARSENIC,TOTAL RECOVERABLE UG/L AS AS		2.000		50.000		
01007					BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		215.000		1000.000		
01012					BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <				
01022					BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		250.000				
01027					CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <		10.000		
01034					CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		5.000 <		50.000		
01037					COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <				
01042					COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000		5000.000		
01045					IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		1800.000		1000.000*		
01051					LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <		50.000		
01055					MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		35.000		150.000		
01067					NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000 <				
01077					SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <		50.000		
01082					STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		740.000				
01097					VANADIUM,TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		4.000 <				
01092					ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000		5000.000		
0117					SELENIUM,TOTAL RECOVERABLE UG/L AS SE		1.000		10.000		
70300					RESIDUE,TOTAL FILTERABLE @180 C,MG/L		357.000				
70304					TOTAL DISSOLVED SOLIDS MG/L BY EC		380.000				
71900					MERCURY,TOTAL UG/L AS HG		0.050 <		2.000		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 0190900 ST JOSEPH  
TAP: 01 PLANT IS ONE BLOCK WEST OF DOWNTOWN  
RAW SRCE: 47669 WELL & AT SEWAGE PLANT OR SW OF TOWN  
SAMPLE NO: Z001185 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/DTHR COMMENTS:  
SMPL PRG: I-GWM INORG OBSRVATNS:

STATUS: A  
STATUS: A  
STATUS: A  
COLL DATE: 03/12/87 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 03/87 FUND CODE:

COMM: Y TYPE WATER: G

ANALYSIS		RSLT	NO	NO	DESCRIPTION	UNITS	RESULT	DRINK WTR	STANDARDS	RAW WTR	TRIGGER LEVEL
ID											
0000001	001	00610	NITROGEN, AMMONIA TOTAL MG/L AS N				0.890				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N				0.100 <	10.000			
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P				0.130				
0000001	004	00720	CYANIDE, TOTAL MG/L AS CN				0.010 <	0.200			
0000001	005	00915	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP				68.000				
0000001	006	00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP				28.000				
0000001	007	00929	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP				41.000				
0000001	008	00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP				1.500				
0000001	009	00940	CHLORIDE, TOTAL MG/L AS CL				5.300				
0000001	010	00345	SULFATE, TOTAL MG/L AS SO4				10.000 <				
0000001	011	00951	FLUORIDE, TOTAL MG/L AS F				0.400	4.000			
0000001	012	00956	SILICA, TOTAL MG/L AS SiO2				18.000				
0000001	013	00956	SILICA, TOTAL MG/L AS SiO2				18.000				
0000001	014	01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS				4.000	50.000			
0000001	015	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP				233.000	1000.000			
0000001	016	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP				0.500 <				
0000001	017	01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP				325.000				
0000001	018	01027	CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP				3.000 <	10.000			
0000001	019	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP				36.000	50.000			
0000001	020	01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP				5.000 <				
0000001	021	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP				10.000	5000.000			
0000001	022	01045	IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP				2239.000	1000.000*			
0000001	023	01051	LEAD, TOTAL RECOVERABLE UG/L AS PBI				5.000 <	50.000			
0000001	024	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP				20.000	150.000			
0000001	025	01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP				5.000 <				
0000001	026	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP				3.000 <	50.000			
0000001	027	01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP				1122.000				
0000001	028	01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP				5.000 <	5000.000			
0000001	029	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP				50.000 <				
0000001	030	01105	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP				50.000 <				
0000001	031	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE				1.000 <	10.000			
0000001	032	22730	PHENOLS, TOTAL RECOVERABLE UG/L				5.000 <				
0000001	033	70300	RESIDUE, TOTAL FILTERABLE @190 C, MG/L				396.000				
0000001	034	71900	MERCURY, TOTAL UG/L AS HG				0.050 <	2.000			
0000001	035	00010	WATER TEMPERATURE DEG C				15.000				
0000001	036	00059	FLOW (PUMPING) RATE GAL/MIN				110.000				
0000001	037	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS				103.000-				
0000001	038	00095	CONDUCTIVITY (EC)-LAMBDA/MHQS/CM @ 25 C				220.000				
0000001	039	00400	PH PH UNITS				7.200				
0000001	040	72014	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN				25.000				



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

REPORT: PWGMP043  
MODULE: PWGMM026

PAGE: 4  
DATE: 07/13/90

FACILITY: 0190900 ST JOSEPH

\*\*\* CONTINUED \*\*\*

0000001 041 30410

362.000

SAMPLE NO: Z001188 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/OTHR COMMENTS:  
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 03/12/87 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 03/87 FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESCRIPTION	UNITS	RESULT	-----STANDARDS-----			TRIGGER LEVEL
						ORINK	WTR	RAW	
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.760				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000			
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.120				
0000001	004	00720	CYANIDE, TOTAL MG/L AS CN		0.010 <	0.200			
0000001	005	00916	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		69.000				
0000001	006	00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		28.000				
0000001	007	00929	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		41.000				
0000001	008	00937	POTASSIUM, TOTAL RECOVERABLE AS K ANAL BY ICP		1.500				
0000001	009	00940	CHLORIDE, TOTAL MG/L AS CL		5.400				
0000001	010	00945	SULFATE, TOTAL MG/L AS SO4		10.000 <				
0000001	011	00951	FLUORIDE, TOTAL MG/L AS F		0.400	4.000			
0000001	012	00956	SILICA, TOTAL MG/L AS SiO2		18.000				
0000001	013	00956	SILICA, TOTAL MG/L AS SiO2		18.000				
0000001	014	01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS		4.000	50.000			
0000001	015	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		234.000	1000.000			
0000001	016	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.5 <				
0000001	017		BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		330.0				
0000001	018		CADIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP		3.000 <	10.000			
0000001	019	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP		5.000 <	50.000			
0000001	020	01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <				
0000001	021	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000			
0000001	022	01045	IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP		2189.000	1000.000*			
0000001	023	01051	LEAD, TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000			
0000001	024	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		19.000	150.000			
0000001	025	01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <				
0000001	026	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000 <	50.000			
0000001	027	01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		1127.000				
0000001	028	01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		5.000 <				
0000001	029	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000			
0000001	030	01105	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP		50.000 <				
0000001	031	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE		1.000 <	10.000			
0000001	032	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <				
0000001	033	70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L		411.000				
0000001	034	00010	WATER TEMPERATURE DEG C		15.000				
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		110.000				
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		103.000-				
0000001	037	00095	CONDUCTIVITY(EC)-LAB(CUMHOS/CM @ 25 C		220.000				
0000001	038	30400	PH PH UNITS		7.200				
0000001	039	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		30.000				
0000001	040	90410			364.000				



\*\*\* CONTINUED \*\*\*

SAMPLE NO: 2001185  
SMPL TYPE: RAW  
SMPL PURP: 5-SPEC/OTHR  
SMPL PRG: V-VOC  
LOCATION: WELL  
COLLECTOR: IEPA SMPL COLLECTOR  
COMMENTS:  
OBSRVATNS:

COLL DATE: 03/12/87  
LAB RCVD: 00/00/00  
LAB COMPL: 00/00/00  
SMPL PERIOD: 03/87  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

ANALYSIS			RSLT		STRET-----		UNITS	RESULT	STANDARDS-----		TRIGGER LEVEL
ID	NO	NC	DESCRIPTION		DRINK WTR	RAW WTR					
0000001	001	32101	BROMOICHLOROMETHANE UG/L CG/MS					1.000	<		
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS					1.000	<		
0000001	003	32103	1,2-DICHLOROETHANE UG/L					1.000	<	5.000	
0000001	004	32104	BROMOFORM UG/L CG/MS					1.000	<	5.000	
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS					1.000	<		
0000001	006	32106	CHLOROFORM UG/L GC/MS					1.000	<		
0000001	007	34010	TOLUENE UG/L					1.000	<		
0000001	008	34030	BENZENE UG/L					1.000	<		
0000001	009	34301	CHLOROBENZENE UG/L					1.000	<	5.000	
0000001	010	34371	ETHYLBENZENE UG/L					1.000	<		
0000001	011	34423	METHYLENE CHLORIDE UG/L					1.000	<		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS					1.000	<		
0000001	013	34495	1,1-DICHLOROETHANE UG/L GC/MS					1.000	<		
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS					1.000	<		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS					1.000	<	7.000	
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS					1.000	<	200.000	
0000001	017	39180	TRICHLOROETHYLENE UG/L					1.000	<		
0000001	018	00010	WATER TEMPERATURE DEG C					15.000		5.000	
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN					110.000			
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS					103.000	-		
0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C					220.000			
0000001	022	00400	PH PH UNITS					7.200			
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN					25.000			
0000001	024	90410						362.000			

SAMPLE NO: 2001187  
SMPL TYPE: RAW  
SMPL PURP: 5-SPEC/OTHR  
SMPL PRG: V-VOC  
LOCATION: WELL  
COLLECTOR: IEPA SMPL COLLECTOR  
COMMENTS:  
OBSRVATNS:

COLL DATE: 03/12/87  
LAB RCVD: 00/00/00  
LAB COMPL: 00/00/00  
SMPL PERIOD: 03/87  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

ANALYSIS		RSLT		STRET		UNITS	STANDARDS			TRIGGER
ID	NO	NC	DESCRIPTION	DRINK WTR	RAW WTR		LEVEL			
0000001	001	32101	BROMOCHLOROMETHANE UG/L CG/MS	1.000	<					
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS	1.000	<					
0000001	003	32103	1,2-DICHLOROETHANE UG/L	1.000	<	5.000				
0000001	004	32104	BROMOFORM UG/L CG/MS	1.000	<	5.000				
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	1.000	<					
0000001	006	32106	CHLOROFORM UG/L GC/MS	1.000	<					
0000001	007	34010	TOLUENE UG/L	1.000	<					
0000001	008	34030	BENZENE UG/L	1.000	<					
0000001	009	34301	CHLOROBENZENE UG/L	1.000	<	5.000				

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

REPORT: PWGWP048  
MODULE: PWGWM026

FACILITY: 0190900 ST JOSEPH

\*\*\* CONTINUED \*\*\*

0000001	010	34371	ETHYLBENZENE UG/L	1.000 <
0000001	011	34423	METHYLENE CHLORIDE UG/L	1.000
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS	1.000 <
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS	1.000 <
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	1.000 <
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	1.000 <
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	1.000 <
0000001	017	39180	TRICHLOROETHYLENE UG/L	1.000 <
0000001	018	00010	WATER TEMPERATURE DEG C	15.000
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN	110.000
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	103.000-
0000001	021	00095	CONDUCTIVITY(EC)-LAB(CUMHDS/CM @ 25 C	220.000
0000001	022	00400	PH PH UNITS	7.200
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	30.000
0000001	024	90410		364.000

FACILITY: 0190900 ST JOSEPH

STATUS: A

PUBLIC: Y

COMM: Y

TYPE WATER: G

TAP: 01 PLANT IS ONE BLOCK WEST OF DOWNTOWN

STATUS: A

RAW SRCE: 47670 WELL 5 IS EAST OF PLANT NEAR REACTION TK

STATUS: A

SAMPLE NO: Z001195 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/1-HR COMMENTS:  
SMPL PROG: I-GWM G OBSRVATNS:

COLL DATE: 03/12/87 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 03/87 FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESCRIPTION	UNITS	RESULT	STANDARDS			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
0000001	001	00610	NITROGEN, AMMONIA TOTAL MG/L AS N		1.100				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000			
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.130				
0000001	004	00720	CYA... TOTAL MG/L AS CN		0.010 <	0.200			
0000001	005	00916	CAL... TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		77.000				
0000001	006	00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		30.000				
0000001	007	00929	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		30.000				
0000001	008	00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.700				
0000001	009	00940	CHLORIDE, TOTAL MG/L AS CL		2.800				
0000001	010	00945	SULFATE, TOTAL MG/L AS SO4		10.000 <				
0000001	011	00951	FLUORIDE, TOTAL MG/L AS F		0.410	4.000			
0000001	012	00956	SILICA, TOTAL MG/L AS SiO2		21.000				
0000001	013	00956	SILICA, TOTAL MG/L AS SiO2		21.000				
0000001	014	01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS		2.000	50.000			
0000001	015	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		246.000	1000.000			
0000001	016	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <				
0000001	017	01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		211.000				
0000001	018	01027	CADIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000			
0000001	019	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		5.000 <	50.000			
0000001	020	01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <				
0000001	021	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000			
0000001	022	01045	IRON, TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP		1698.000	1000.000*			

FACILITY: 0190900 ST JOSEPH

\*\*\* CONTINUED \*\*\*

0000001	023	01051	LEAD, TOTAL RECOVERABLE UG/L AS P8
0000001	024	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS
0000001	025	01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP
0000001	026	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP
0000001	027	01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP
0000001	028	01087	VANADIUM, TOTAL RECOVERABLE UG/L ASV ANAL BY ICP
0000001	029	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP
0000001	030	01105	ALUMINUM, TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP
0000001	031	01147	SELENIUM, TOTAL RECOVERABLE UG/L ASSE
0000001	032	32730	PHENOLS, TOTAL RECOVERABLE UG/L
0000001	033	70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L
0000001	034	71900	MERCURY, TOTAL UG/L AS HG
0000001	035	00010	WATER TEMPERATURE DEG C
0000001	036	00059	FLOW (PUMPING) RATE GAL/MIN
0000001	037	00095	CONDUCTIVITY(CE)-LABCUMHOS/CM @ 25 C
0000001	038	00400	PH PH UNITS
0000001	039	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN
0000001	040	90410	

SAMPLE NO: B027643      LOCATION: WELL #5

SMPL TYPE: RAW      COLLECTOR: RONALD FISHER

SMPL PURP: 1-ROUTINE      COMMENTS:

SMPL PRG: I-GWM INORG OBSRVATNS:

ANALYSIS	IO	RSLT	NO	NO	DESCRIPTION	UNITS	RESULT	DRINK WTR	STANDARDS	RAW WTR	TRIGGER LEVEL
00095					CONDUCTIVITY(CE)-LABCUMHOS/CM @ 25 C		640.000				
00403					PH LABORATORY UNITS		7.700				
00410					ALKALINITY, TOTAL MG/L AS CAC03		362.000				
00610					NITROGEN, AMMONIA TOTAL MG/L AS N		1.300				
00630					NITRATE & NITRITE TOTAL MG/L AS N		0.100	10.000			
00720					CYANIDE, TOTAL MG/L AS CN		0.005	0.200			
00900					HARNESS, EDTA MG/L AS CAC03		293.000				
00916					CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		73.000				
00927					MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		31.100				
00929					SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		29.000				
00937					POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.600				
00940					CHLORIDE, TOTAL MG/L AS CL		2.600				
00945					SULFATE, TOTAL MG/L AS S04		10.000				
00951					FLUORIDE, TOTAL MG/L AS F		0.400				
00956					SILICA, TOTAL MG/L AS S102		21.000		4.000		
01002					ARSENIC, TOTAL RECOVERABLE UG/L AS AS		2.000				
01007					BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		259.000		50.000		
01012					BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	1000.000			
01022					BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		220.000				
01027					CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP		3.000		10.000		
01034					CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP		5.000		50.000		
01037					COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000				
01042					COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000		5000.000		





FACILITY: 0190900 ST JOSEPH  
TAP: C1 PLANT IS ONE BLOCK WEST OF DOWNTOWN  
RAW SRC: 47671 WELL 6 AT MONROE ST AND RR, W OF PLANT  
LOCATION: WELL  
COLLECTOR: IEPA SMPL COLLECTOR  
SMPL TYPE: RAW  
SMPL PURP: 5-SPEC/DIHR COMMENTS:  
SMPL PRG: I-GWM INORG OBSRVATNS:

STATUS: A  
STATUS: A  
STATUS: A  
PUBLIC: Y  
COMM: Y  
TYPE WATER: G

COLL DATE: 03/12/87  
LAB RCVD: 00/00/00  
LAB COMPL: 00/00/00  
SMPL PERIOD: 03/87  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

ANALYSIS		RSLT		STOR		DESCRIPTION		UNITS	RESULT	STANDARDS			TRIGGER LEVEL
ID	NO	NO	NO	NO	NO					ORINK	WTR	RAW	
0000001	001	00610				NITROGEN,AMMONIA TOTAL MG/L AS N			1.600				
0000001	002	00630				NITRATE & NITRITE TOTAL MG/L AS N			0.110				
0000001	003	00665				PHOSPHORUS, TOTAL MG/L AS P			0.140	10.000			
0000001	004	00720				CYANIDE, TOTAL MG/L AS CN			0.010	0.200			
0000001	005	00916				CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP			75.000				
0000001	006	00927				MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP			30.000				
0000001	007	00929				SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP			34.000				
0000001	008	00937				POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP			1.700				
0000001	009	00940				CHLORIDE, TOTAL MG/L AS CL			5.400				
0000001	010	00945				SULFATE, TOTAL MG/L AS SO4			10.000				
0000001	011	00951				FLUORIDE, TOTAL MG/L AS F			0.380	4.000			
0000001	012	00956				SILICA, TOTAL MG/L AS S102			21.000				
0000001	013	00956				SILICA, TOTAL MG/L AS S102			21.000				
0000001	014	01002				ARSENIC, TOTAL RECOVERABLE UG/L AS AS			2.000	50.000			
0000001	015	01007				BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP			242.000	1000.000			
0000001	016	01012				BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP			0.500				
0000001	017	01022				BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP			259.000				
0000001	018	01027				CADIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP			3.000	10.000			
0000001	019	01034				CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP			5.000	50.000			
0000001	020	01037				COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP			5.000				
0000001	021	01042				COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP			5.000				
0000001	022	01045				IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP			5.000	5000.000			
0000001	023	01051				LEAD, TOTAL RECOVERABLE UG/L AS PB			1925.000	1000.000*			
0000001	024	01055				MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP			5.000	50.000			
0000001	025	01067				NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP			31.000	150.000			
0000001	026	01077				SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP			5.000				
0000001	027	01082				STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP			3.000	50.000			
0000001	028	01087				VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP			787.000				
0000001	029	01092				ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP			5.000				
0000001	030	01105				ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP			50.000	5000.000			
0000001	031	01147				SELENIUM, TOTAL RECOVERABLE UG/L AS SE			50.000				
0000001	032	32720				PHENOLS, TOTAL RECOVERABLE UG/L			1.000	10.000			
0000001	033	70300				RESIDUE, TOTAL FILTERABLE @180 C, MG/L			5.000				
0000001	034	71900				MERCURY, TOTAL UG/L AS HG			427.000				
0000001	035	00010				WATER TEMPERATURE DEG C			0.050	2.000			
0000001	036	00053				FLOW (PUMPING) RATE GAL/MIN			14.000				
0000001	037	00095				CONDUCTIVITY (EC)-LAB(CUMHOS)/CM @ 25 C			110.000				
0000001	038	00400				PH PH UNITS			240.000				
0000001	039	72004				FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN			7.200				
0000001	040	90410							65.000				
									371.000				

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

REPORT: PWGWP048  
MODULE: PWGWM026

PAGE: 10  
DATE: 07/13/90

FACILITY: 0190900 ST JOSEPH

SAMPLE NO: 8027642 LOCATION: WELL #6  
SMPL TYPE: RAW COLLECTOR: RONALD FISHER  
SMPL PURP: 1-ROUTINE COMMENTS:  
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 03/02/83 DELIVERED BY:  
LAB RCVD: 04/13/83 RECEIVED BY:  
LAB COMPL: LAB SUPERVISOR:  
SMPL PERIOD: 03/83 FUND CODE:

ANALYSIS RSLT NO NO NO DESCRIPTION

UNITS RESULT OPINK WTR RAW WTR TRIGGER LEVEL

-----STANDARDS-----

00095 CONDUCTIVITY(EC)-LAB(CUMHDS/CM @ 25 C  
00403 PH LABORATORY UNITS  
00410 ALKALINITY,TOTAL MG/L AS CaCO3  
00610 NITROGEN,AMMONIA TOTAL MG/L AS N  
00630 NITRATE & NITRITE TOTAL MG/L AS N  
00720 CYANIDE,TOTAL MG/L AS CN  
00900 HARDNESS,EDTA MG/L AS CaCO3  
00916 CALCIUM,TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP  
00927 MAGNESIUM,TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP  
00929 SODIUM,TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP  
00937 POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  
00940 CHLORIDE,TOTAL MG/L AS CL  
00945 SULFATE,TOTAL MG/L AS SO4  
00951 FLUORIDE,TOTAL MG/L AS F  
00956 SILICA,TOTAL MG/L AS SiO2  
01002 ARSENIC,TOTAL RECOVERABLE UG/L AS AS  
01007 BARIUM,TOTAL RECOVERABLE UG/L AS Ba ANAL BY ICP  
01012 BERYLLIUM,TOTAL RECOVERABLE UG/L AS Be ANAL BY ICP  
01022 BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP  
01027 CADMIUM,TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP  
01034 CHROMIUM,TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP  
01037 COBALT,TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP  
01042 COPPER,TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP  
01045 IRON,TOTAL RECOVERABLE, UG/L AS Fe ANAL BY ICP  
01047 LEAD,TOTAL RECOVERABLE UG/L AS Pb  
01055 MANGANESE,TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP  
01067 NICKEL,TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP  
01077 SILVER,TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP  
01082 STRONTIUM,TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP  
01087 VANADIUM,TOTAL RECOVERABLE UG/L AS V ANAL BY ICP  
01092 ZINC,TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP  
01147 SELENIUM,TOTAL RECOVERABLE UG/L AS Se  
70300 RESIDUE,TOTAL FILTERABLE @180 C,MG/L  
70304 TOTAL DISSOLVED SOLIDS MG/L BY EC  
71900 MERCURY,TOTAL UG/L AS Hg

670.000  
7.600  
365.000  
1.700  
0.100 <  
0.005 <  
294.000  
74.000  
32.200  
30.000  
1.800  
4.100  
10.000 <  
0.350  
21.000  
2.000  
264.000  
0.500 <  
290.0  
3.000 <  
5.000 <  
5.000 <  
4.000  
2100.000  
5.000  
39.000  
4.000  
5.00 <  
820.000  
4.000 <  
16.000  
1.000 <  
412.000  
400.000  
0.050 <  
2.000

SAMPLE NO: Z001196 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/OTHR COMMENTS:  
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 03/12/87 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 03/87 FUND CODE:



\*\*\* CONTINUED \*\*\*

ANALYSIS		RSLT		STDET		DESCRIPTION	UNITS	RESULT	STANDARDS		TRIGGER LEVEL
ID	NO	NO	NO	NO	NO				DRINK WTR	RAW WTR	
0000001	001	32101				BROMODICHLORDMETHANE UG/L GC/MS		1.000 <			
0000001	002	32102				CARBON TETRACHLORIDE UG/L GC/MS		1.000 <			
0000001	003	32103				1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104				BROMOFORM UG/L GC/MS		1.000 <	5.000		
0000001	005	32105				DIBROMOCHLORDMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106				CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010				TOLUENE UG/L		1.000 <			
0000001	008	34030				RENZENE UG/L		1.000 <			
0000001	009	34301				CHLOROBENZENE UG/L		1.000 <	5.000		
0000001	010	34371				ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423				METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475				TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496				1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501				1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	015	34506				1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	7.000		
0000001	016	34546				TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <	200.000		
0000001	017	39180				TRICHLOROETHYLENE UG/L		1.000 <			
0000001	018	00010				WATER TEMPERATURE DEG C		1.000 <	5.000		
0000001	019	00059				FLOW (PUMPING) RATE GAL/MIN		14.000			
0000001	020	00095				CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		110.000			
0000001	021	00400				PH PH UNITS		240.000			
0000001	022	72004				FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		7.200			
0000001	023	90410						65.000			
								371.000			



APPENDIX E



HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 47668-06-PS, Distance and Direction from the Wellhead 50 feet West
2. Nature of Business below ground fuel tank
3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): none
4. DAPC Permit Number(s) and Description: none
5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): none
6. ERU Incidents and Description: none
7. ERU 313 Reports and Description: none
8. ESDA 302/303 Reports and Description: none
9. ESDA 311/312 Reports and Description: none
10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): none
11. ISFM list the underground storage tanks registered, provide the owner name and address:

Owner Name

Address

Sr Joseph Township  
Road District

400 W. Sherman, Sr Joseph

12. Is the site sewered or non-sewered? sewered

If the site is not sewered, describe:

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occurred?  
☐ Yes. If yes, describe: \_\_\_\_\_  
\_\_\_\_\_  
☒ No.
14. Are there currently any on-site piles of special or hazardous waste?  
☐ Yes. If yes, describe: \_\_\_\_\_  
\_\_\_\_\_  
☒ No.
15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?  
☒ Yes.  
☐ No. If no, describe: \_\_\_\_\_  
\_\_\_\_\_
16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?  
☒ Yes. If yes, describe: two tanks at present  
\_\_\_\_\_  
☐ No.
- 17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?  
☐ Yes (continue to next question)  
☒ No (stop here)
- (b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)  
☐ Yes (continue to next question)  
☐ No (stop here)
- (c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?
- ☐ Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils
  - ☐ Replacement or major repair of damaged facilities
  - ☐ Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils
  - ☐ Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act
  - ☐ Reordering or other replenishment of inventory due to the amount of substance lost
  - ☐ Temporary or more long-term monitoring of groundwater at or near the site
  - ☐ Stop usage of an on-site or nearby water well because of offensive characteristics of the water
  - ☐ Coping with fumes from subsurface storm drains or inside basements
  - ☐ Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site



(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

☐ Yes. If yes, describe:

☒ No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

☐ Yes. If yes, describe:

☒ No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

☒ Yes. If yes, describe: If a leak or rupture were to occur the well could be contaminated due to its close proximity

☐ No.





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